



|                      |          |
|----------------------|----------|
|                      |          |
| Class                | Subclass |
| ISSUE CLASSIFICATION |          |

PATENT NUMBER

## U.S. UTILITY Patent Application

U.S. UTILITY Patent Application

|  |             |
|--|-------------|
| O.I.P.E.   | PATENT DATE |
| SCANNED  Q.A.  |             |

|                              |            |              |          |                  |          |
|------------------------------|------------|--------------|----------|------------------|----------|
| APPLICATION NO.<br>09/930361 | CONT/PRIOR | CLASS<br>257 | SUBCLASS | ART UNIT<br>2811 | EXAMINER |
|------------------------------|------------|--------------|----------|------------------|----------|

## APPLICANTS

Kazuaki Ando

**TITLE**

Low profile ball-grid array package for high power

PTO-2040  
12/99

| <b>ISSUING CLASSIFICATION</b> |                 |  |  |                           |  |  |  |  |  |
|-------------------------------|-----------------|--|--|---------------------------|--|--|--|--|--|
| <b>ORIGINAL</b>               |                 |  |  | <b>CROSS REFERENCE(S)</b> |  |  |  |  |  |
| <b>CLASS</b>                  | <b>SUBCLASS</b> |  |  | <b>CLASS</b>              | <b>SUBCLASS (ONE SUBCLASS PER BLOCK)</b> |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |
|                               |                 |  |  |                           |  |  |  |  |  |

☐ Continued on Issue Slip Inside File Jacket

|  |   |             |            |                                   |                      |
|--|---|-------------|------------|-----------------------------------|----------------------|
| <b>TERMINAL<br/>DISCLAIMER</b>   | <b>DRAWINGS</b>                                 |             |            | <b>CLAIMS ALLOWED</b>             |                      |
|  | Sheets Drwg.                                    | Figs. Drwg. | Print Fig. | Total Claims                      | Print Claim for O.G. |
| <input type="checkbox"/> The term of this patent subsequent to _____ (date) has been disclaimed.                                 | _____ (Assistant Examiner) _____ (Date)         |             |            | <b>NOTICE OF ALLOWANCE MAILED</b> |                      |
| <input checked="" type="checkbox"/> The term of this patent shall not extend beyond the expiration date of U.S Patent. No. _____ | _____ (Primary Examiner) _____ (Date)           |             |            | <b>ISSUE FEE</b>                  |                      |
| <input type="checkbox"/> The terminal _____ months of this patent have been disclaimed.  | _____ (Legal Instruments Examiner) _____ (Date) |             |            | Amount Due                        | Date Paid            |
|  |   |             |            | <b>ISSUE BATCH NUMBER</b>         |                      |

**WARNING:**

**WARNING:** The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.

Form PTO-438A  
(Rev. 6/99)

FILED WITH: ☐ DISK (CRF) ☐ FICHE ☐ CD-ROM  
(Attached in pocket on right inside flap.)

**BEST AVAILABLE COPY**

(FACE)